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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/618,862	07/14/2003	Eric Balard	TI-34918 6968	
23494 TEXAS INSTI	7590 10/09/200 RUMENTS INCORPO		EXAMINER	
P O BOX 655474, M/S 3999 DALLAS, TX 75265			REVAK, CHRISTOPHER A	
DALLAS, IX	75265		ART UNIT	PAPER NUMBER
			2131	
			NOTIFICATION DATE	DELIVERY MODE
			10/09/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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• · · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)				
	10/618,862	BALARD ET AL.				
Office Action Summary	Examiner	Art Unit				
	Christopher A. Revak	2131				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v. - Failure to reply within the set or extended period for reply will, by statute. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 19 Ju	ıly 2007.	•				
•						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-24 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.	•				
Application Papers						
9) The specification is objected to by the Examine						
10)⊠ The drawing(s) filed on <u>14 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the	= ' '	•				
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:					

DETAILED ACTION

Response to Arguments

- 1. The examiner hereby maintains the obvious-type double patenting rejection, the applicant only offers arguments for the record that indicate "Applicant has reviewed these references in detail and does not believe that they disclose or make obvious the invention as claimed". Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references.
- 2. Applicant's arguments with respect to claims 1-24 have been considered but are most in view of the new ground of rejection.
- 3. As per claims 8 and 9, the applicant asserts that Martinek fails to suggest that "Martinek compares a die identification number in a digital certificate associated with the system program is compared to a die identification device uniquely associated with the computing device" and which fails to meet the applicant's claimed invention.
- 4. The examiner disagrees with the applicant's assertion, the examiner indicates that Martinek discloses of certifying a program, but the teachings of Martinek et al fail to disclose of the use of digital certificates, whereby Housley et al is relied upon for disclosing of the use of digital certificates used for validating information contained within it, see below. In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually

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where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

Double Patenting

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

6. Claims 1-24 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-21 of copending Application No. 10/618,859. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 1-24 of the instant application are envisioned by co-pending claims 1-21 in that claims 1-21 of the copending application contains all the limitations of claims 1-24 of the instant application.

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Claims 1-24 of the instant application therefore are not patentably distinct from the copending claims, and as such, are unpatentable for obvious-type double patenting.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 1,11,23, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Martinek et al, U.S. Patent 7,043,641 in view of Priem et al, U.S. Patent 5,652,793.

As per claim 1, it is taught by Martinek et al of a computing device comprising a processing system, a memory coupled to the processing system, a system program stored in the memory, and a secure checking program for repeatedly authenticating the system program during operation of the computing device to ensure that the system program is not modified during execution (col. 4, lines 15-19; col. 5, lines 36-47; col. 8, lines 22-23; and col. 9, lines 10-24). The teachings of Martinek et al fail to disclose of verifying a binding between the system program and the computing device. It is taught by Priem et al of verifying a binding between the system program and the computing device (col. 1, lines 32-39). It is obvious to a person of ordinary skill in the art, at the

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time of the invention, to have included the aspect of validating software by determining if it is allowed to be executed on a particular computer system. The teachings of Priem et al recite of motivational benefits for validating software prior to usage by disclosing of shortcomings in the prior art that exist wherein illegal usage exists wherein copied programs execute on computer systems and a binding between the software and a particular computer is checked to see if the software is entitled to run on the machine to which it is assigned for usage (col. 1, lines 32-46). It is obvious to a person of ordinary skill that the teachings of Martinek et al would have been made more secure by determining if installed software is authorized to run on a particular computer as is taught by Priem et al.

As per claim 11, Martinek et al teaches of a method of controlling the operation of a computing device comprising the steps of comparing a current state of a system program executed by the computing device with a known secure state of the system program and repeating the comparing step during operation of the computing device to determine if any variation of the system program form the known secure state (col. 5, lines 36-47 and col. 9, lines 10-24). The teachings of Martinek et al fail to disclose of verifying a binding between the system program and the computing device. It is taught by Priem et al of verifying a binding between the system program and the computing device (col. 1, lines 32-39). It is obvious to a person of ordinary skill in the art, at the time of the invention, to have included the aspect of validating software by determining if it is allowed to be executed on a particular computer system. The teachings of Priem et al recite of motivational benefits for validating software prior to usage by disclosing of

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shortcomings in the prior art that exist wherein illegal usage exists wherein copied programs execute on computer systems and a binding between the software and a particular computer is checked to see if the software is entitled to run on the machine to which it is assigned for usage (col. 1, lines 32-46). It is obvious to a person of ordinary skill that the teachings of Martinek et al would have been made more secure by determining if installed software is authorized to run on a particular computer as is taught by Priem et al.

As per claim 23, Martinek et al teaches wherein the repeating step comprises the step of repeating the comparing step during periods of inactivity in the computing device (col. 9, lines 10-24).

As per claim 24, Martinek et al discloses wherein the repeating step comprises the step of repeating the comparing step when initiated by a software application (col. 9, lines 10-24).

9. Claims 2-10 and 12-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Martinek et al, U.S. Patent 7,043,641 in view of Priem et al, U.S. Patent 5,652,793, in further view of Housley et al (RFC 2459).

As per claim 2, it is disclosed by Martinek et al of certifying the system program, wherein the information defining a secure state of the system program (col. 5, lines 6-16), however the combined teachings of Martinek et al and Priem et al fail to disclose of the use of digital certificates. It is taught by Housley et al of the use of digital certificates used for validating information contained within it (page 8, section 3.1). It would have

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been obvious to a person of ordinary skill in the art at the time of the invention to have been motivated to apply the use of digital certificates to certify certain content.

Motivation is used by Housley et al in that it is suggested that authentication and authorization information is provided in order to certify the content associated with it (page 6, section 2.2). The teachings of Martinek et al are suggestive to the use of certificates since it is disclosed that content is certified and the teachings of Housley et al provide further support for the use of digital certificates to certify the content associated with it.

As per claim 3, Martinek et al teaches wherein the information includes a hash of the system program (col. 9, lines 10-24).

As per claim 4, Martinek et al discloses wherein the hash is asymmetrically encrypted using a private key to produce a signature associated with the system program (col. 5, lines 48-56 and col. 6, lines 38-63).

As per claim 5, it is taught by Martinek et al wherein the information includes a public key associated with the private key (col. 6, lines 38-63).

As per claims 6,19, and 20, it is disclosed by Martinek et al wherein the secure checking program authenticates the system/firmware program by decrypting the signature using the public key to produce a decrypted signature and comparing a hash of the current state of the system/firmware program with the decrypted signature (col. 5, lines 48-56; col. 6, lines 38-63; and col. 9, lines 10-24).

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As per claim 7, Martinek et al teaches wherein the information is asymmetrically encrypted using a private key belonging to a manufacturer of the computing device (col. 6, lines 38-63).

As per claim 8, Martinek et al discloses wherein the information includes a die identification number uniquely associated with the computing device (col. 5, lines 36-47).

As per claims 9 and 21, it is taught by Martinek et al wherein the secure checking program compares the die identification number stored with a die identification number stored in the computing device (col. 5, lines 36-47). The teachings of Housley et al are relied upon for the use of digital certificates, please refer above for the motivation of applying the teachings of Housley et al to the disclosure of Martinek et al.

As per claims 10 and 22, it is disclosed by Martinek et al wherein the secure checking program can disable functions of the computing device if a modification of the system program is detected (col. 9, lines 10-24).

As per claim 12, Martinek et al discloses wherein the comparing step comprises the step of comparing information associated with the system program to the current state to determine if a modification of the system program has occurred (col. 9, lines 10-24). The teachings of Housley et al are relied upon for the use of digital certificates, please refer above for the motivation of applying the teachings of Housley et al to the disclosure of Martinek et al.

As per claim 13, it is taught by Martinek et al wherein the comparing step further comprises the step of authenticating a firmware, wherein the firmware contains an

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encrypted hash (col. 6, lines 38-63 and col. 9, lines 10-24). The teachings of Housley et all are relied upon for the use of digital certificates, please refer above for the motivation of applying the teachings of Housley et all to the disclosure of Martinek et al. Housley et all further discloses of certificate fields which comprises specific information associated with the subject (page 14, section 4.1).

As per claim 14, it is disclosed by Martinek et al wherein the authenticating step comprises the step of asymmetrically decrypting the hash using a public key to produce a signature (col. 5, lines 48-56; col. 6, lines 38-63; and col. 9, lines 10-24). The teachings of Housley et al are relied upon for the use of digital certificates, please refer above for the motivation of applying the teachings of Housley et al to the disclosure of Martinek et al.

As per claim 15, Housley et al teaches wherein the public key is stored in the digital certificate (page 14, section 4.1). The teachings of Housley et al are relied upon for the use of digital certificates, please refer above for the motivation of applying the teachings of Housley et al to the disclosure of Martinek et al.

As per claim 16, Martinek et al discloses wherein the authenticating step comprises the step of comparing a hash of a current state of the system program with the signature (col. 9, lines 10-24).

As per claim 17, it is taught by Martinek et al wherein the comparing step comprises the step of authenticating an originator's public key, where the originator's public key is associated with a firmware originator (col. 6, lines 38-63). The teachings of

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Housley et al are relied upon for the use of digital certificates, please refer above for the motivation of applying the teachings of Housley et al to the disclosure of Martinek et al.

As per claim 18, it is disclosed by Martinek et al wherein the authenticating step comprises the step of decrypting the signature associate with originator's public key with reference to a manufacturer's public key, where the manufacturer's public key is associated with a manufacturer of the computing device, to produce a decrypted signature, generating a hash of the originator's public key, and comparing the decrypted signature with the hash (col. 5, lines 48-56; col. 6, lines 38-63; and col. 9, lines 10-24).

Conclusion

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher A. Revak whose telephone number is 571-272-3794. The examiner can normally be reached on Monday-Friday, 6:30am-3:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CR

September 30, 2007

CHRISTOPHER REVAK PRIMARY EXAMINER